Stuart E. Smith Colwell General, Inc. 200 Sixth Street Fort Wayne, IN 46808

Re: 113-11777-00019

Significant Permit Modification to Part 70 Permit 113-6020-00019

Dear Mr. Smith:

Colwell General, Inc. was issued a Part 70 operation permit on October 6, 1998 for a paint sample manufacturing plant located at 231 South Progress Drive, Kendallville, IN 46755. An application to modify the source was received on January 18, 2000. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Allen R. Davidson at (800) 451-6027, press 0 and ask for extension 3-5693, or dial (317) 233-5693.

Sincerely,

Paul Dubenetzky, Chief Permits Branch Office of Air Management

Attachments ARD

cc: File - Noble County

U.S. EPA, Region V

Noble County Health Department IDEM - Northern Regional Office Air Compliance Section Inspector - Doyle Houser

Compliance Data Section - Melinda Jones Administrative and Development - Janet Mobley Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT OFFICE OF AIR MANAGEMENT

Colwell/General, Inc. 231 South Progress Drive East Kendallville, Indiana 46755

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T113-6020-00019	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date: October 6, 1998
First Administrative Amendment 113-10300-00019	Issuance Date: February 15, 1999
First Significant Source Modification: 113-11120-00019	Issuance Date: November 11, 1999
Second Administrative Amendment 113-11506-00019	Issuance Date: December 28, 1999
First Significant Permit Modification: 113-11777-00019	Pages Affected: 26, 27b, 31, 31b
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

Colwell/General, Inc. First Significant Permit Modification: 113-11777-00019 Page 3a of 32 Kendallville, Indiana Modified by Allen R. Davidson OP No. T113-6020-00019

Permit Reviewer: Holly M. Stockrahm

C.9 Performance Testing [326 IAC 3-6]

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

- C.10 Compliance Schedule [326 IAC 2-7-6(3)]
- C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
- C.12 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
- C.13 Monitoring Methods [326 IAC 3]
- C.14 Pressure Gauge Specifications

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

- C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]
- C.17 Compliance Monitoring Plan Failure to Take Response Steps [326 IAC 2-7-5]
- C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- C.19 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)]
- C.20 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]
- C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)]
- C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

Stratospheric Ozone Protection

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1 FACILITY OPERATION CONDITIONS - four (4) paper coating lines, S-1, S-3, S-2, and CC-1, and one (1) can washing line

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-5]
- D.1.2 PSD Minor Limit [326 IAC 2-2][40 CFR 52.21]
- D.1.3 Hazardous Air Pollutants (HAPs) [326 IAC 2-4.1-1]
- D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

- D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
- D.1.6 Volatile Organic Compounds (VOC)
- D.1.7 Volatile Organic Compounds (VOC)

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.8 Volatile Organic Compound Control

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- D.1.9 Record Keeping Requirements
- D.1.10 Reporting Requirements

D.2 FACILITY OPERATION CONDITIONS - one (1) paper coating line, S-4

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-5]
- D.2.2 PSD Minor Limit [326 IAC 2-2][40 CFR 52.21]
- D.2.3 New Source Toxics Control [326 IAC 2-4.1-1]
- D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

Compliance Determination Requirements

- D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]
- D.2.6 Volatile Organic Compounds (VOC)
- D.2.7 Volatile Organic Compounds (VOC)
- D.2.8 New Source Toxics Control [326 IAC 2-4.1-1]

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Permit Reviewer: Holly M. Stockrahm

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.9 Volatile Organic Compound Control

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.10 Record Keeping Requirements
D.2.11 Reporting Requirements

Certification **Emergency/Deviation Occurrence Report Quarterly Reports Quarterly Compliance Monitoring Report**

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SECTION A

SOURCE SUMMARY

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This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary paper coating and offset printing presses operation producing paint chips and stripe cards.

Responsible Official: **David Brayton**

Source Address: 231 South Progress Drive East, Kendallville, Indiana 46755-3269

Mailing Address: P.O. Box 218, Kendallville, Indiana 46755-0218

Phone Number: 219-347-1981 SIC Code: 2752

County Location: Noble

County Status: Attainment for all criteria pollutants

Source Status: Part 70 Permit Program

Major Source, under PSD Rules;

Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]

[326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (1) one (1) paper coating line, S-1, with a maximum throughput of 35 gallons of coatings per hour. Emissions shall be controlled by direct flame incinerator, TO-1, (capacity details listed under insignificant activity (1)), then exhausted at Stack/Vent ID #S1;
- (2) one (1) paper coating line, S-3, with a maximum throughput of 35 gallons of coatings per hour. Emissions shall be controlled by a thermal oxidizer, TO-1, then exhausted at Stack/Vent ID #S1;
- (3) one (1) paper coating line. S-2, with a maximum throughout of 432 pounds of coating per hour. Emissions shall be controlled by a thermal oxidizer, TO-1, then exhausted at Stack/Vent ID #S1;
- (4) one (1) enclosed can washer with recirculating solvent, with suspended VOC exhausted to and controlled by a thermal oxidizer, TO-1, then exhausted at Stack/Vent ID #S1; and
- (5) one (1) curing oven and rollcoating paper coating application system, identified as CC-1, equipped with one (1) 1.35 million (MM) British thermal units (Btu) per hour, natural gasfired burner for the curing oven, with a maximum throughput of 36 pounds of coating per hour to coat a maximum of 41.8 pounds of paper per hour, with VOC emissions controlled by an existing thermal oxidizer, identified as TO-1, exhausting through one (1) stack, identified as #S1;
- one (1) curing oven and rollcoating paper coating application system, identified as S-4. (6) with a maximum throughput of 425 pounds of coating per hour to coat a maximum of 1,079 pounds of paper per hour, with VOC emissions controlled by a new thermal oxidizer, identified as TO-2, exhausting through one (1) stack, identified as #TO-2; and
- one (1) thermal oxidizer, identified as TO-2, using natural gas as a supplementary fuel at (7) a maximum heat input rate of 3.0 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as #TO-2. The curing oven on the S-4 coating line is powered through heat recovery from this thermal oxidizer.

Colwell/General, Inc. Kendallville, Indiana First Significant Permit Modification: 113-11777-00019 Modified by Allen R. Davidson

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A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1 (21) that have applicable requirements.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 Applicability).

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Permit Reviewer: Holly M. Stockrahm

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (1) one (1) paper coating line, S-1, with a maximum throughput of 35 gallons of coatings per hour. Emissions shall be controlled by direct flame incinerator, TO-1, (capacity details listed under insignificant activity (1)), then exhausted at Stack/Vent ID #S1;
- one (1) paper coating line, S-3, with a maximum throughput of 35 gallons of coatings per hour. Emissions shall be controlled by a thermal oxidizer, TO-1, then exhausted at Stack/Vent ID #S1;
- one (1) paper coating line, S-2, with a maximum throughput of 432 pounds of coating per hour. Emissions shall be controlled by a thermal oxidizer, TO-1, then exhausted at Stack/Vent ID #S1;
- one (1) enclosed can washer with recirculating solvent, with suspended VOC exhausted to and controlled by a thermal oxidizer, TO-1, then exhausted at Stack/Vent ID #S1; and
- one (1) curing oven and rollcoating paper coating application system, identified as CC-1, equipped with one (1) 1.35 million (MM) British thermal units (Btu) per hour, natural gas-fired burner for the curing oven, with a maximum throughput of 36 pounds of coating per hour to coat a maximum of 41.8 pounds of paper per hour, with VOC emissions controlled by an existing thermal oxidizer, identified as TO-1, exhausting through one (1) stack, identified as #S1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-5]

- (a) Pursuant to 326 IAC 8-2-5 (Paper Coating Operations), no owner or operator of a coating line subject to this section may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of two and nine-tenths (2.9) pounds per gallon excluding water, delivered to the coating applicator from a paper, plastic, metal foil, or pressure sensitive tape/labels coating line.
- (b) When operating the thermal oxidizer (TO-1) to achieve the limit for rule 326 IAC 8-2-5, 2.9 pounds of VOC emitted to the atmosphere per gallon of coating less water delivered to the applicator, the thermal oxidizer shall maintain a minimum 94.0% overall efficiency. This efficiency is required by the rule 326 IAC 8-1-2 (a)(2). Based upon 326 IAC 8-1-2 (c) and the overall control efficiency of 94.0%, the VOC content of the coating shall not exceed 18.1 pounds per gallon of coating solids delivered to the applicator.

D.1.2 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

The usage of VOC, including coatings, dilution solvents, and cleaning solvents, in the rollcoating paper coating application system, identified as CC-1, shall be limited to 45 tons per twelve (12) consecutive month period, rolled on a monthly basis. VOC emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, identified as TO-1, that maintains a minimum overall control efficiency of 94.0%. This limit will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

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D.1.3 Hazardous Air Pollutants (HAPs) [326 IAC 2-4.1-1]

The total input of any single HAP and any combination of HAPs, including coatings, dilution solvents, and cleaning solvents, to the rollcoating paper coating application system, CC-1, shall be limited to 165 and 400 tons per twelve (12) consecutive month period, rolled on a monthly basis, respectively. HAP emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, TO-1, that maintains a minimum overall control efficiency of 94.0%. These limits shall render the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control) not applicable.

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D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee shall perform VOC testing on the 9.4 MM Btu/hr thermal oxidizer, TO-1, by a method approved by the Commissioner, to determine the minimum operating temperature that will achieve 94.0% overall efficiency for this incinerator. Since the initial test required by this permit was performed within 6 months after issuance of this permit, this test shall not be required until five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.1.6 Volatile Organic Compounds (VOC)

Compliance with the VOC content contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAM, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.7 Volatile Organic Compounds (VOC)

The thermal oxidizer, TO-1, shall be in operation at all times when any of the paper coating lines (S-1, S-2, S-3, or CC-1) or the can washing line is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.8 Volatile Organic Compound Control

When operating, the thermal oxidizer shall maintain a minimum operating temperature of 1400°F or a temperature, fan amperage, and duct velocity determined in the most recent compliance stack tests to maintain at least 94.0% overall control efficiency. The temperature of the burner of the thermal oxidizer shall be continuously monitored and recorded whenever any of the facilities are in operation. Compliance with this condition shall deem 326 IAC 8-2-5 satisfied.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.9 Record Keeping Requirements

- (a) The Permittee shall maintain records of the materials used that contain any VOCs. The records shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in condition D.1.1. The records shall contain, as a minimum, the following information:
 - (1) The weight of VOC-containing material used, including purchase orders and invoices necessary to verify the type and amount used.
 - (2) The VOC content (weight and volume percent) of each material used.

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- (3) The weight of VOCs emitted for each compliance period, considering capture and destruction (or removal) efficiency.
- (4) Operational parameters of the VOC emission control equipment, considering capture and destruction (or removal) efficiency.
- (5) Operational parameters of the VOC emission control equipment, such as:
 - (i) Capture efficiency;
 - (ii) Destruction (or removal) efficiency;
 - (iii) Data used to establish the capture and destruction (or removal) efficiencies; and
 - (iv) Temperature readings.
- (b) To document compliance with Conditions D.1.2 and D.1.3, the Permittee shall also maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits for the CC-1 coating line established in Conditions D.1.2 and D.1.3.
 - (1) The amount, the VOC content, and the HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (2) A log of the dates of use;
 - (3) The volume weighted VOC and HAP content of the coatings used for each month:
 - (4) The cleanup solvent usage for each month;
 - (5) The total VOC and HAP usage for each month; and
 - (6) The weight of VOCs and HAPs emitted for each compliance period.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.2 and D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

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SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (6)one (1) curing oven and rollcoating paper coating application system, identified as S-4, with a maximum throughput of 425 pounds of coating per hour to coat a maximum of 1,079 pounds of paper per hour, with VOC emissions controlled by a new thermal oxidizer, identified as TO-2, exhausting through one (1) stack, identified as #TO-2; and
- (7) one (1) thermal oxidizer, identified as TO-2, using natural gas as a supplementary fuel at a maximum heat input rate of 3.0 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as #TO-2. The curing oven on the S-4 coating line is powered through heat recovery from this thermal oxidizer.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

Volatile Organic Compounds (VOC) [326 IAC 8-2-5]

- Pursuant to 326 IAC 8-2-5 (Paper Coating Operations), no owner or operator of a coating line subject to this section may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of two and nine-tenths (2.9) pounds per gallon excluding water, delivered to the coating applicator from a paper, plastic, metal foil, or pressure sensitive tape/labels coating line.
- (b) When operating the thermal oxidizer (TO-2) to achieve the limit for rule 326 IAC 8-2-5, 2.9 pounds of VOC emitted to the atmosphere per gallon of coating less water delivered to the applicator, the thermal oxidizer shall maintain a minimum 95.0% overall efficiency. This efficiency exceeds the minimum overall control efficiency required by the rule 326 IAC 8-1-2 (a)(2).

PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

The usage of VOC, including coatings, dilution solvents, and cleaning solvents, in the rollcoating paper coating application system, identified as S-4, shall be limited to 726 tons per twelve (12) consecutive month period, rolled on a monthly basis. VOC emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, identified as TO-2, that maintains a minimum overall control efficiency of 95.0%. This limit will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

New Source Toxics Control [326 IAC 2-4.1-1] D.2.3

Pursuant to the MACT determination under 326 IAC 2-4.1-1, operating conditions for the new rollcoating paper coating application system, identified as S-4, shall be any one or combination of the following:

- At least 95 percent overall organic HAP control efficiency (capture and control) using an (a) add-on control device for emissions from a coating line, as calculated over a calendar month; or
- (b) no more than 0.20 kg HAP applied per kg coating solids applied, as calculated on a weighted average basis for each calendar month for all coatings used; or
- no more than 0.20 kg HAP emitted per kg coating solids applied, as calculated on a weighted average basis for all coatings used each calendar month.

This source will use the thermal oxidizer, identified as TO-2, to comply with paragraph (a) of this condition.

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D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

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Compliance Determination Requirements

D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

To demonstrate compliance with the minimum 95% overall control efficiency required by condition D.2.1, during the period between 0 and 6 months after issuance of Significant Source Modification No. 113-11120-00019, the Permittee shall perform VOC testing on the thermal oxidizer, TO-2, by a method approved by the Commissioner, to determine the minimum operating temperature that will achieve 95.0% overall efficiency for this oxidizer. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance. Compliance with this condition can coincide with compliance with condition D.2.8.

D.2.6 Volatile Organic Compounds (VOC)

Compliance with the VOC content limit contained in Condition D.2.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAM, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.2.7 Volatile Organic Compounds (VOC)

The thermal oxidizer, TO-2, shall be in operation at all times when the paper coating line (S-4) is in operation.

D.2.8 New Source Toxics Control [326 IAC 2-4.1-1]

To demonstrate compliance with the 95% overall organic HAP control efficiency requirement in Condition D.2.3(a), the Permittee shall follow the procedures in either paragraph (a) or (b) of this condition:

- (a) Demonstrate initial compliance through performance tests of capture efficiency and control device efficiency and continuing compliance through continuous monitoring of capture system and control device operating parameters by following the procedures listed below:
 - (1) An initial performance test to establish the destruction efficiency (E) and the associated combustion zone temperature for the thermal oxidizer TO-2 shall be conducted and the data reduced in accordance with the following reference methods and procedures:
 - (i) Method 1 or 1A of 40 CFR part 60, appendix A is used for sample and velocity traverses to determine sampling locations.
 - (ii) Method 2, 2A, 2C, or 2D of 40 CFR part 60, appendix A is used to determine gas volumetric flow rate.
 - (iii) Method 3 of 40 CFR part 60, appendix A is used for gas analysis to determine dry molecular weight.
 - (iv) Method 4 of 40 CFR part 60, appendix A is used to determine stack gas moisture.

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> (v) Methods 2, 2A, 3, and 4 of 40 CFR part 60, appendix A shall be performed, as applicable, at least twice during each test period.

- (vi) Method 25 of 40 CFR part 60, Appendix A, shall be used to determine organic volatile matter concentration, except as provided in (A) to (C) below. The Permittee shall submit notice of the intended test method to IDEM, OAM for approval along with notice of the performance test that conforms to the schedule and procedures in 40 CFR 63.7(c) (General Provisions). The Permittee may use Method 25A of 40 CFR Part 60, Appendix A, if:
 - (A) An exhaust gas organic volatile matter concentration of 50 parts per million by volume (ppmv) or less is required to comply with Condition D.2.3(a): or

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- (B) The organic volatile matter concentration at the inlet to the control system and the required level of control are such to result in exhaust gas organic volatile matter concentrations of 50 ppmv or less, or
- (C) Because of the high efficiency of the control device, the anticipated organic volatile matter concentration at the control device exhaust is 50 ppmv or less, regardless of inlet concentration.
- (vii) Each performance test shall consist of three separate runs; each run conducted for at least one hour under the conditions that exist when the affected source is operating under normal operating conditions. For the purpose of determining organic volatile matter concentrations and mass flow rates, the average of results of all runs shall apply.
- (viii) Organic volatile matter mass flow rates shall be determined using Equation 20 in 40 CFR 63.828 (Subpart KK). A copy of Subpart KK is included with this permit.
- (ix) Emission control device efficiency shall be determined using Equation 21 in 40 CFR 63.828 (Subpart KK).
- (x) The Permittee shall record such process information as may be necessary to determine the conditions of the performance test. Operations during periods of start-up, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test.
- For the purpose of determining the value of the oxidizer operating (xi) parameter that will demonstrate continuing compliance, the time-weighted average of the values recorded during the performance test shall be computed. The Permittee shall establish as the operating parameter the minimum combustion temperature.
- (2) A performance test to determine the capture efficiency (F) of the capture system venting organic emissions to the thermal oxidizer TO-2 shall be conducted in accordance with the following:

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- (i) For a permanent total enclosure, capture efficiency shall be assumed as 100 percent. Procedure T--Criteria for and Verification of a Permanent or Temporary Total Enclosure as found in appendix B to 40 CFR 52.741 shall be used to confirm that an enclosure meets the requirements for permanent total enclosure.
- (ii) For other than a permanent total enclosure, the capture efficiency shall be determined according to the protocol specified in 40 CFR 52.741(a)(4)(iii)(B).
- (iii) As an alternative, the Permittee may use any capture efficiency protocol and test methods that satisfy the criteria of either the Data Quality Objective (DQO) or the Lower Confidence Limit (LCL) approach as described in Appendix A of 40 CFR Part 63, Subpart KK, the Printing and Publishing Industry NESHAP.
- (3) Calculate the overall organic HAP control efficiency, (R), achieved using the following equation:

R = E*F/100

- (4) Install, calibrate, operate and maintain the instrumentation necessary to measure continuously the site-specific operating parameters established in accordance with the procedures in Condition D.2.10 whenever the coating line S-4 is operating.
- (5) The affected source is in compliance if the oxidizer is operated such that the average operating parameter value is greater than the operating parameter value established in accordance with Condition D.2.10(a) for each three-hour period, and the capture system operating parameter is operated at an average value greater than or less than (as appropriate) the operating parameter value established in accordance with Condition D.2.10(b) for each three hour period, and the overall organic HAP control efficiency, R, is 95 percent or greater.
- (b) As an alternative to the procedures in paragraph (a) of this condition, the Permittee may use continuous emission monitors, conduct an initial performance test of capture efficiency, and continuously monitor a site-specific operating parameter to assure capture efficiency. Compliance shall be demonstrated by following the procedures listed below:
 - (1) Install continuous emission monitors to determine the total organic volatile matter mass flow rate (e.g., by determining the concentration of the vent gas in grams per cubic meter, and the volumetric flow rate in cubic meters per second, such that the total organic volatile matter mass flow rate in grams per second can be calculated and summed) at both the inlet to and the outlet from the control device, such that the percent control efficiency (E) of the control device can be calculated for each month.
 - (2) Install, calibrate, operate and maintain the instrumentation necessary to measure continuously the site-specific operating parameter established in accordance with the procedures in Condition D.2.10(b) whenever the S-4 coating line is operated.

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(3) Determine the capture efficiency (F) in accordance with the procedures in paragraph (a)(2) of this condition.

- (4) Calculate the overall organic HAP control efficiency, (R), achieved for each month using the equation in paragraph (a)(3) of this condition.
- (5) The affected source is in compliance if the capture system operating parameter is operated at an average value greater than or less than (as appropriate) the operating parameter value established in accordance with for each three hour period, and the overall organic HAP control efficiency, R, is 95 percent or greater.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.9 Volatile Organic Compound Control

When operating, the thermal oxidizer shall maintain a minimum operating temperature of 1300°F or a temperature determined in the most recent compliance stack tests to maintain at least 95.0% overall control efficiency. The temperature of the burner of the thermal oxidizer shall be continuously monitored and recorded whenever any of the facilities are in operation. Compliance with this condition shall deem 326 IAC 8-2-5 satisfied.

D.2.10 New Source Toxics Control [326 IAC 2-4.1-1]

Following the date on which the initial performance test of the thermal oxidizer TO-2 is completed, to demonstrate continuing compliance with Condition D.2.3(a), the Permittee shall monitor and inspect the oxidizer to ensure proper operation and maintenance by implementing the following:

- (a) Install, calibrate, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device shall have an accuracy of +/-1 percent of the temperature being monitored in degrees Celsius or +/-1 degrees Celsius, whichever is greater. The thermocouple or temperature sensor shall be installed in the combustion chamber at a location in the combustion zone.
- (b) Monitor an operating parameter to ensure that the capture efficiency measured during the initial compliance test is maintained. The Permittee shall:
 - (1) Submit to IDEM, OAM a plan that:
 - (i) Identifies the operating parameter to be monitored to ensure that the capture efficiency measured during the initial compliance test is maintained:
 - (ii) Discusses why this parameter is appropriate for demonstrating ongoing compliance; and
 - (iii) Identifies the specific monitoring procedures;
 - (2) Set the operating parameter value, or range of values, that demonstrate compliance with Condition D.2.3(a), and
 - (3) Conduct monitoring in accordance with the plan submitted to IDEM, OAM unless comments received from IDEM,OAM require an alternate monitoring scheme.

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Any excursion from the required operating parameters which are monitored in (c) accordance with paragraphs (a) and (b) of this condition, unless otherwise excused, shall be considered a violation of the emission standard in Condition D.2.3(a).

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Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.11 Record Keeping Requirements

- The Permittee shall maintain records of the materials used that contain any VOCs or HAPs. The records shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits established in conditions D.2.1, D.2.2, and D.2.3. The records shall contain, as a minimum, the following information:
 - (1) The weight of VOC-containing and HAP-containing material used, including purchase orders and invoices necessary to verify the type and amount used.
 - (2) The VOC and HAP content (weight and volume percent) of each material used.
 - The weight of VOCs and HAPs emitted for each compliance period, considering (3) capture and destruction (or removal) efficiency.
 - VOC and HAP control device and capture system operating parameter data for (4) each month, such as:
 - (i) Capture efficiency;
 - Destruction (or removal) efficiency; (ii)
 - (iii) Data used to establish the capture and destruction (or removal) efficiencies; and
 - Temperature readings. (iv)

D.2.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

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Kendallville, Indiana Permit Reviewer: Holly M. Stockrahm

Phone:

Colwell/General, Inc.

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Part 70 Quartarly Papart

	Part 70	Quarterly Report	
Source Name: Source Address: Mailing Address: Part 70 Permit No.: Facility: Parameter: Limit:	P.O. Box 218, Kenda T113-6020-00019 rollcoating paper ap VOC The usage of VOC, in the rollcoating paper imited to 45 tons per basis. VOC emissic shall be controlled be minimum overall controlled.	Drive East, Kendallville, Indianallville, Indianallville, Indiana 46755-0218 plication system CC-1 including coatings, dilution solver coating application systemer twelve (12) consecutive monons from the rollcoating paper of the thermal oxidizer, identification efficiency of 94.0%.	vents, and cleaning solvents, , identified as CC-1, shall be th period, rolled on a monthly coating application system
	Column 1	Column 2	Column 1 + Column 2
Month	VOC Usage This Month (tons)	VOC Usage Previous 11 Months (tons)	12 Month Total VOC Usage (tons)
9	No deviation occurre	ed in this quarter.	
9	Deviation/s occurred in this quarter. Deviation has been reported on:		
	Position:ture:		

Colwell/General, Inc. Kendallville, Indiana Permit Reviewer: Holly M. Stockrahm

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Part 70 Quarterly Report

OFFICE OF AIR MANAGEMENT COMPLIANCE DATA SECTION

Source Name:	Colwell/General, In-	C.

Source Address: 231 South Progress Drive East, Kendallville, Indiana 46755-3269

Mailing Address: P.O. Box 218, Kendallville, Indiana 46755-0218

Part 70 Permit No.: T113-6020-00019

Facility: rollcoating paper application system CC-1

Parameter: Single HAP and Total HAP

Limit: The total input of any single HAP and any combination of HAPs, including

coatings, dilution solvents, and cleaning solvents, to the rollcoating paper coating application system, CC-1, shall be limited to 165 and 400 tons per twelve (12) consecutive month period, rolled on a monthly basis, respectively. HAP emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, TO-1, that maintains a minimum overall

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control efficiency of 94.0%.

YEAR: _____

Month	Worst- Case Single HAP Usage This Month (tons)	Total HAP Usage This Month (tons)	Worst- Case Single HAP Usage Previous 11 Months (tons)	Total HAP Usage Previous 11 Months (tons)	12 Month Worst- Case Single HAP Usage (tons)	12 Month Total HAP Usage (tons)

9	No devi	riation occurred in this quarter.	
9		on/s occurred in this quarter. on has been reported on:	

Colwell/General, Inc. First Significant Permit Modification 113-11777-00019 Kendallville, Indiana Amended by: Allen R. Davidson

Permit Reviewer: Holly M. Stockrahm

Phone:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT COMPLIANCE DATA SECTION

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OP No. T113-6020-00019

	Part 70	Quarterly Report	
Source Name: Source Address: Mailing Address: Part 70 Permit No.: Facility: Parameter: Limit:	Colwell/General, Inc. 231 South Progress Drive East, Kendallville, Indiana 46755-3269 P.O. Box 218, Kendallville, Indiana 46755-0218 T113-6020-00019 rollcoating paper application system S-4 VOC The usage of VOC, including coatings, dilution solvents, and cleaning solvents, in the rollcoating paper coating application system, identified as S-4, shall be limited to 726 tons per twelve (12) consecutive month period, rolled on a monthly basis. VOC emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, identified as TO-2, that maintains a minimum overall control efficiency of 95.0%. YEAR:		
March	Column 1	Column 2	Column 1 + Column 2
Month	VOC Usage This Month (tons)	VOC Usage Previous 11 Months (tons)	12 Month Total VOC Usage (tons)
9	No deviation occurred Deviation has been	·	
	Position:ature:		

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Significant Modification to a Part 70 Operating Permit

Source Background and Description

Source Name: Colwell General

Source Location: 231 South Progress Drive, Kendallville, IN 46755

County: Noble SIC Code: 2752

Operation Permit No.: 113-6020-00019
Operation Permit Issuance Date: October 6, 1998
Modification No.: 113-11777-00019
Permit Reviewer: Allen R. Davidson

On January 18, 2000, the Office of Air Management (OAM) received an application from Colwell General requesting to change two VOC emission limits stated in the permit. One VOC usage limit will be increased and the other limit will be decreased. After control efficiency is considered, there will be no net change in potential to emit.

History

Colwell General was issued a Part 70 permit for a paint sample and paint stripe card manufacturing plant on October 6, 1998. The emission source has since received an administrative amendment on February 15, 1999 and a significant source modification on November 11, 1999.

This application is the third modification to their Part 70 permit. It requests amendment of limits to coating lines S-4 and CC-1. These facilities were approved for construction in their significant source modification (113-11120-00019).

Enforcement Issues

There are no enforcement actions pending against this emission source.

Stack Summary

Stack information will not be affected by this modification.

Recommendation

The staff recommends to the Commissioner that the modification be approved as a significant permit modification. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on January 18, 2000.

The following changes are being proposed for the Part 70 permit:

D.1.2 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

The usage of VOC, including coatings, dilution solvents, and cleaning solvents, in the rollcoating paper coating application system, identified as CC-1, shall be limited to 81.96 45 tons per twelve (12) consecutive month period, rolled on a monthly basis. VOC emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, identified as TO-1, that maintains a minimum overall control efficiency of 94.0%. This limit will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.2.2 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

The usage of VOC, including coatings, dilution solvents, and cleaning solvents, in the rollcoating paper coating application system, identified as S-4, shall be limited to 681.82 726 tons per twelve (12) consecutive month period, rolled on a monthly basis. VOC emissions from the rollcoating paper coating application system shall be controlled by the thermal oxidizer, identified as TO-2, that maintains a minimum overall control efficiency of 95.0%. This limit will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

Emission Calculations

Colwell General has the following restrictions to avoid PSD requirements in 113-11120-00019:

$$(681.82 \text{ ton/yr} * 5.00\% \text{ emitted}) + (81.96 \text{ ton/yr} * 6.00\% \text{ emitted}) = 39.0 \text{ ton/yr}$$

Colwell General requests the following restrictions to avoid PSD requirements:

$$(726 \text{ ton/yr} * 5.00\% \text{ emitted}) + (45 \text{ ton/yr} * 6.00\% \text{ emitted}) = 39.0 \text{ ton/yr}$$

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

The existing source potential to emit is as follows:

Pollutant	Potential To Emit (tons/year)
PM	0.1
PM-10	0.1
SO ₂	0.0
VOC	322.1
CO	1.6
NO _x	1.9

HAPs	Potential To Emit (tons/year)
greatest single HAP	17.4
TOTAL	36.5

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The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of volatile organic compounds are equal to or greater than 100 tons per year. Also, the potential to emit a single hazardous air pollutant (HAP) is equal to or greater than ten (10) tons per year and the potential to emit a combination of HAP is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

This existing source is a major source for Prevention of Significant Deterioration, 326 IAC 2-2 since a regulated pollutant has the potential to emit at a rate of 250 tons per year or more.

This modification is classified as significant Part 70 modification because it is changing a limit that the emission source assumed to avoid classification as a major modification for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. However, this is not a major modification for PSD because the potential to emit remains less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

County Attainment Status

The source is located in Noble County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC and NO_{χ} emissions are considered when evaluating the rule applicability relating to the ozone standards. Noble County has been designated as attainment or unclassifiable for ozone.

This modification is not a major modification for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 because the increase in potential to emit is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this modification.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this modification.

State Rule Applicability - Entire Source

This modification changes VOC usage limits but rule applicability remains unchanged. The applicability is reiterated here for convenience:

326 IAC 2-2 (Prevention of Significant Deterioration)

Pursuant to the Part 70 permit (T113-6020-00019), issued on October 6, 1998, this existing source is a major PSD source. However, this source will limit VOC usage in each of coating lines CC-1 and S-4 to 45 and 726 tons per twelve (12) consecutive month period, rolled on a monthly basis, respectively. Also, VOC emissions from the coating line CC-1 shall be controlled by the existing thermal oxidizer, identified as TO-1, which shall maintain a minimum overall

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control efficiency of 94.0%. The VOC emissions from the coating line S-4 shall be controlled by the new thermal oxidizer, identified as TO-2, which shall maintain a minimum overall control efficiency of 95.0%. These usage limits and control device requirements will limit VOC emissions to less than 40 tons per year so that this modification to an existing major source is minor and the requirements of 326 IAC 2-2 do not apply.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it is located in Noble County and has the potential to emit more than one hundred (100) tons per year of VOC. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following:

- Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute (a) averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

This modification changes VOC usage limits but rule applicability remains unchanged. The rule applicability is reiterated here for convenience:

326 IAC 2-4.1-1 (New Source Toxics Control)

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit which in and of itself emits or has the potential to emit (PTE) 10 tons per year of any HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT).

- This source will limit single and total HAP usage in the new coating line, CC-1, to 165 (a) and 400 tons per twelve (12) consecutive month period, rolled on a monthly basis, respectively. Also, the existing thermal oxidizer (TO-1) shall be in operation at all times that the coating line CC-1 is in operation and shall maintain a minimum overall control efficiency of 94.0%. This limit will limit single and total HAP emissions to less than 10 and 25 tons per year, respectively, in coating line CC-1 so that 326 IAC 2-4.1-1 does not apply.
- (b) Since single and total HAP emissions in coating line S-4 cannot be limited to less than 10 and 25 tons per year, respectively, this coating line is subject to the requirements of this rule. Pursuant to this rule, HAP emissions must be controlled using MACT. The MACT standard for the Paper and Other Web Coating source category is scheduled for promulgation in 2000. Currently for this source category, a presumptive MACT (PMACT) determination has been made by the EPA with stakeholder input from Federal. State. and local environmental agencies and industry representatives based on readily available industry data. This PMACT applies to those facilities in which a coating is applied to a web substrate and is subsequently air dried, cured in an oven, or cured by radiation. Since the coating line S-4 applies coating to a web substrate, in this case paper, which is subsequently cured in an oven, the PMACT requirements will apply. A

complete discussion on how the PMACT determination was made for the paper and other web coating source category can be found in the EPA document entitled "Presumptive Maximum Achievable Control Technology for the Paper and Other Web Coating Source Category", EPA, Office of Air Quality Planning and Standards, (OAQPS), Emission Standards Division, Coatings and Consumer Products Group, May 1997.

Based on the currently available data and comments from the stakeholders involved, presumptive MACT for HAP emissions from Paper and Other Web Coating, which shall apply to coating line S-4, is any one or combination of the following:

- (1) At least 95-99 percent overall control efficiency (capture and control) using an add-on control device for emissions from a coating line, as calculated over a calendar month; or
- (2) no more than 0.20 kg HAP applied per kg coating solids applied, as calculated on a weighted average basis for each calendar month for all coatings used; or
- (3) no more than 0.20 kg HAP emitted per kg coating solids applied, as calculated on a weighted average for all coatings used each calendar month.

An overall control efficiency range of 95-99 percent was provided because, although it has been acknowledged that current technology has resulted in overall emission reductions as high as 99 percent, the extent of this level of control efficiency within the industry is currently unknown. It is intended that presenting overall control efficiency levels as a range will allow for the use of traditional as well as innovative control technologies. Various technology options are thereby allowed, including, but not limited to, thermal and catalytic oxidizers, carbon adsorbers, solvent recovery systems, bioreactors, etc. It is also assumed that 100 percent capture efficiency is achievable and reasonable, since a number of facilities currently are known to achieve 100 percent capture using permanent total enclosures (PTE). The regulatory subgroup, consisting of the EPA project team and EPA Regional and State/Local Agency representatives, believes that PTE can readily be installed on new coating lines that are subject to case-by-case MACT under Section 112(g).

This source will use a thermal oxidizer, identified as TO-2, with a minimum overall control efficiency of 95% as PMACT to comply with this rule. A permanent total enclosure (PTE) shall also be installed to achieve 100 percent capture.

Compliance options for emission limitation (1) listed above can be established using the Printing and Publishing NESHAP, 40 CFR Part 63, Subpart KK as a guide.

Pursuant to 40 CFR 63, Subpart KK, each owner or operator using an oxidizer to control emissions shall show compliance by following the procedures in either paragraph (d)(1) or (d)(2) of 40 CFR 63.825. Since this source will demonstrate compliance through performance tests of capture efficiency and control device efficiency and continuing compliance through continuous monitoring of capture system and control device operating parameters per 40 CFR 63.825(d)(1), the source shall follow the procedures listed below:

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(1) Determine the oxidizer destruction efficiency (E) using the procedure in 40 CFR 63.827(d).

- (2) Determine the capture system capture efficiency (F) in accordance with 40 CFR 63.827(e)-(f). Note that since the source must install a PTE, capture efficiency shall be assumed as 100 percent. Procedure T-Criteria for and Verification of a Permanent or Temporary Total Enclosure as found in appendix B to 40 CFR 52.741 of part 52 of this chapter shall be used to confirm that an enclosure meets the requirements for permanent total enclosure.
- (3) Calculate the overall organic HAP control efficiency, (R), achieved using the following equation:

R = EF/100

where: E = VOC destruction efficiency F = VOC capture efficiency

- (4) Install, calibrate, operate and maintain the instrumentation necessary to measure continuously the site-specific operating parameters established in accordance with 40 CFR 63.828(a)(4)-(5).
- (5) The affected source is in compliance, if the oxidizer is operated such that the average operating parameter value is greater than the operating parameter value established in accordance with 40 CFR 63.828(a)(4) for each three-hour period, and the capture system operating parameter is operated at an average value greater than or less than (as appropriate) the operating parameter value established in accordance with 40 CFR 63.828(a)(5) for each three hour period, and the overall organic HAP control efficiency, R, is 95 percent or greater.

326 IAC 8-1-6 (New Facilities, General Reduction Requirements)

This modification is not subject to the requirements of this rule because, although the two (2) coating lines are new facilities, they are subject to the requirements of 326 IAC 8-2-5 (Paper Coating Operations). Therefore, the requirements of 326 IAC 8-1-6 do not apply.

326 IAC 8-2-5 (Paper Coating Operations)

Pursuant to 326 IAC 8-2-5 (Paper Coating Operations), the volatile organic compound (VOC) content of coatings applied in each of paper coating lines CC-1 and S-4 to labels of any substrate, or pressure sensitive tapes, or paper, plastic or metal foil by means of web coating shall be limited to 2.9 pounds VOC per gallon of coating less water delivered to the applicator. The source shall comply with this rule, pursuant to 326 IAC 8-1-2(c), by using the existing thermal oxidizer (TO-1) and the new thermal oxidizer (TO-2) at all times that the paper coating lines CC-1 and S-4, respectively, are in operation. Also, the existing thermal oxidizer (TO-1) and shall maintain a minimum overall control efficiency of 94.0% and the new thermal oxidizer (TO-2) shall maintain a minimum overall control efficiency of 95.0%. See Appendix A, page 3 of 5, for detailed compliance calculations.

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Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as hazardous air pollutants on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

This source emits levels of hazardous air pollutants greater than those which constitute a major source according to Section 112 of the 1990 Clean Air Act Amendments. This modification will have negligible effect on existing HAP emissions.

Conclusion

The operation of these emission units shall be subject to the conditions of the attached significant permit modification, No 113-11777-00019.